

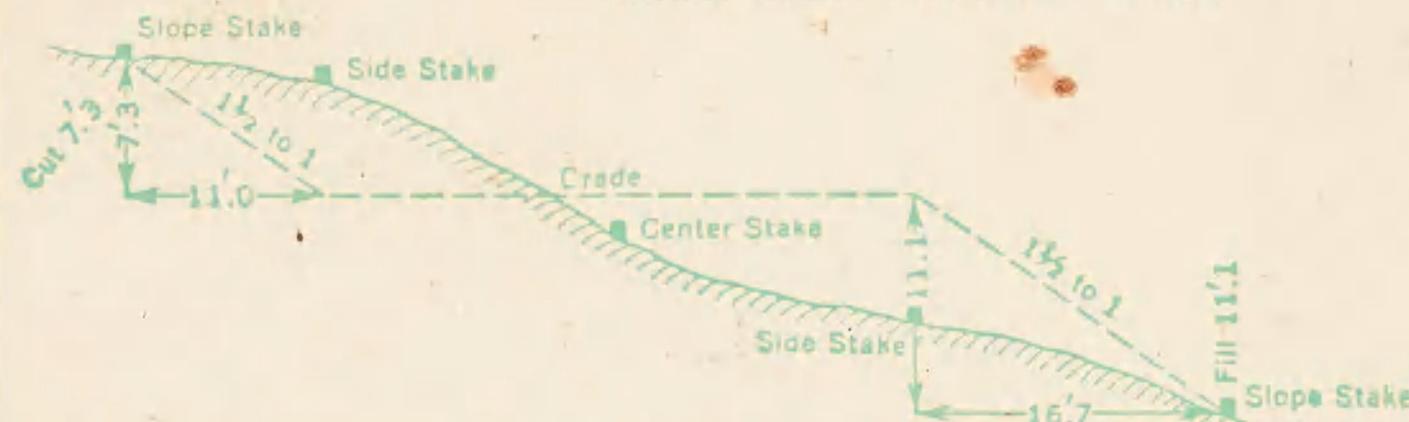
"Run in the Rain."

WEATHERPROOF
LEVEL BOOK

No. 310

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING **Roadway of any Width. Side Slopes 1½ to 1.**

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

"Rite in the Rain"
WEATHERPROOF

a product of

J. L. DARLING CORPORATION
 TACOMA, WASHINGTON 98421 U.S.A.





Montane forest

150

2mm spider lb

2mm spider lb

100

100

2mm spider lb

100

50

100

1mm spider lb

50

3mm white spotted spider lb

50

100

50

50

100 6mm thin spider lb

100

2mm spider lb

50

3mm green spider lb

100

50

8mm thin spider lb

50

1 leaf with aphid

→ 2mm white spider lb

100

50

1000

Rio Limpio

1000 m

40' canopy

dense understory

few dead leaves -

Small leaved plants

mid-day - partly
overcast

50 5mm jumper spider lb

50 2mm honey }
1mm wasp } lb

50

50

50 2mm honey lb }
2mm spider lb }

50

50 2mm spider lb
" " lb

50 3mm gr spider lb

1900

50

50 1mm wasp lb
2mm honey lb

50

50

2000

50 2mm spider lb

50 2+2mm spider lb

5mm red + black with yellow c.

50

100

50

50 1x12mm 1p larva lb

50

2400

50

50 2x 2mm th. spider lb, lb

50

50 1mm th. spider lb

50

50 2mm honey lb

50 10mm th. spider lb

50 1mm spider lb

50 1mm lb

150 2x 1mm spider lb

2nd great - very young

Rio Limpio

50

50

50

100

50

50

(3mm the spider 1b
2mm the spider)

50

50

50

600

50

50

1mm spider 1b
2mm spider 1b

50

50

50

50

50

50

50

50

50

50

50

50

50

9mm green rock in tree
leaf cut

50

50

50

50

100

50

50

50

100

3mm honey 1b

50

50

50

100

200

50

100

8mm honey 1b (barn)

50

100

50

1cm green then honey 1b

50

50

200

Jamaica - 1/16

DVT

1# sh

sh

sh

L sec

hammer vine 2'

f13'

1 sec

long vine 2 sec

sh

sh

b s'

an p3'

sh s'

13"

peck 3" DCL 1 sec

sh

trial = 7 sec

probe DCL 5"

cc, cc sh f14', f12'

f15', sh, sh

T = 30 sec

hang down 5" PCL

10 sec

T = 2 sec

hang down loose vine pett 1 sec

T = 5 sec

3" probe 2" dead stick

10-15'

Decor Underly

BTL w/ll

Robot +

Peck
Dense Rooster us at epph, la

4" DCL 2"

sh

sh

sh

sh

Peck at branch

sh

Pl 7'

drag down

drag down

sh

sh

cccccc sh

peck at twig 20cc

sh Pl 6'

sh sh sh sh sh sh

1" e peck at sh 3 x 1" DCL 2 sec

sh sh sh } 13"

long down peck 5" DCL 2 sec

65'

2#

15'

Peck at twig - not (PW

BLW

NEW

peck at twig "A" sh

peck at bark 2" DCL 2 sec

sh 2 sec

peck 1" DCL 10cc

4" DCL (?) time

sh

cr, cr, cr, cr, cr, cr

cr, sh

her, down peck 3" DCL 7 sec

T 2 10cc

Peck up peck 5" DCL 2 sec

Peck 12" DCL 1 sec

sh sh sh, cr cr = 10cc

Lean to peck 2" DCL = 10cc

cr, cr = 2 sec

peck 2" DCL = 2 sec

cr, cr = 3 sec

her down sh 5" DCL = 35cc

sh, sh, cr, cr, cr, sh, cr

sh, cr, cr = 18 sec

Peck DCL = 10cc

sh sh cr = 1 = 3 sec

her down peck at vine 3 sec

5h 5h
15'/35-40' forest alone?
3# hang upside down ~~at twig~~ = 4 sec

hang at twig end = 2 sec

20' out (cup)
hang upside down on wire 4 sec
swing & pull at wire end 4 sec
hang at wire end } 16 sec
pull at hook 5 ping }

hang & push at 2" lat pulled & L
dropped it = 3 sec
open understory 10'/50' sol. tang?
5' loose wire 10 sec

T=2.5 sec
hang & probe branch end 7 sec
T=8 sec

hang riding probe at twig 5 sec
fl T H T drop T=6 sec
hang down probe at twig
T=3 sec

hang down probe at wire 10 sec
T=2 sec

hang down ~~probe~~ ^{p. h. wire}
hang down thin wire T=3 sec
Er, cr fl'd?

6# check BTB or Elenia
MOP BMU, BTR, BTR, etc. release

10'/50' open understory
solitary?
7# 8# 6" sec 15" leaf (+?)
16" sec 17" crumb - leaf
= 25 sec hanging
open solitary
Drop cr, cr 5 sec
poke from top cluster 2 sec x 15 sec leaf
poke from under
"pro. h. - spreading = 50 sec
5 sec

T=2 sec
pull 5" PCL
T=1 sec
hang 4" leaf 1 sec
4" leaf 1 sec
4" leaf 1 sec

(11-12) 4" lat hang down (?)

Hang down + crawl 3" PCL = 30 sec

1st, 2nd, 3rd, 4th T = 60 sec

probe 5" PCL 30 sec

fl 20', cr fl 3' = 10 sec

5" leaf "hang" peak = 25 sec?

fl 20' T = 60 sec

cluster by cluster, check

hop T = 10 sec

peak 10" lat = 5 sec + chase
(medium)

to ground

Hang down 8" PCL 70 sec

fl 3' cr cr = 70 sec

peak 8" PCL = 10 sec

sh T = 10 sec

hang down 7-8" PCL = 10 sec

T = 40 sec S.F.

5" PCL? T = ?

hang down 7" PCL = 10 sec

hang down cluster 4" PCL = 10 sec?

cluster of 10" PCL?

hang down 12" PCL (?)

10th 100' DCL - hang in cluster
sol. by "very happy"

hang up
hang down, crawl thro' tub of DCL

peak 4" PCL - hang down

still rattling around in this
huge mass = 80 sec ++

11th hang down 10" cr lat
lat but in = 10 sec

20' / 50'

S.F.

probe 7" 10" cr lat
hang down } 10 sec?

or drag up vine 10 sec

T = 10 sec

peak 11" PCL = 5 sec
hang

Prop = 10 sec

hang down side = 15 sec

met or not at all

Dominican Republic

1/26/89

6' DUT - sandy soil

4' Prop
Prop 3' cr, cr fl 3' sh, L = 37 sec

(cr, taf) Thuh

2' 1/2' 5" DCL

3' DUT

fl 2' = 10 sec

very pale 4" DCL
vine

3' 1/2'

chase DUT stand growth - no den

2/10'

5' twig tip check (leaving)

(+) (+)

1/27 chase twig

10 sec

3' 1/2' h, cr

chick 3" DCL

Dense undergrowth

chick twig

15 sec

sh, sh, cr, cr, fl 2' = 15 sec

fl 2'

Brownish style twig = 5 sec

sh, cr, cr, cr = 5 sec

long-chick twig underside prick - grab (+)

long suberose vertical twig = 2 sec

cr, cr, sh, fl 2'

long vine - alternate stem ?

sh, sh = 3 sec

checked dead leaf 2 sec

fl 10 sec

checked Dh 10 sec (2 sec)

check top of 3 twigs 1 (+) small

on vine

sh, sh, sh (followed by touch)

long sides 1" DCL ?

cr, cr

long, loose dead twig = 4 sec

cr, cr 2 sec

pick cr 4" DCL (+) flush?

3-1-1 2 sec

sh, sh = 2 sec

long vine 2 sec

cr, cr = 3 sec

pick at petiole

long p 5 sec 4" DCL (+) ?

sh, sh, cr, cr fl 1' = 5 sec

3" branch 2 sec

fl, cr, cr on branch

sh, sh, cr, sh

long pink vine 2 sec

pick dead twig on ~~unusually~~ unduly

4 sec

pick 3" PCL 1 sec

sh, sh, fl

hang down 1 sec vine pick

and 5" PCL

#2 pick end of dead twig 2 sec

her, sideways, hammering

popo hypnops - 1.5 sec

3-5/

20

6 sec

170 seconds

cr, sh, bw, sh, cr, stl

sh, fl, = 30 sec

hang down ~~core~~ 1 sec 10 sec

hang sideways 5" PCL 1 sec

fl hang on fern branch 8"

↑ hercupis

petiole

core petiole

fl = 5 sec

pick 5" PCL 1 sec

probe 2" PCL

sh

sh her

≤ 3 sec

4" PCL scrub

work both feet

a gap

hang down

33 sec

T2 20 sec

hang down pick at twig

6 sec

sh hang on twig

5 sec

pick up L h. + h. (core last) = 10 sec

fl 3' sh = 7 sec

hang on vine pick at tip of

vine chip at bark

20 sec

sh 3'

fl

hang + pick vine (shrub bark)

hang down hammering

hang up pulling

hang down

80 sec

fl 3' T = 8 sec

pick 3" PCL

2 sec

T = 5 sec

pick 3" PCL

2 sec

hang down pick at dead twig

3 sec

pick dead twig

3 sec

probe at wire 5 sec
sh, sh, sh, sh 13'

carriage stem

3# 4/20' sol. ty - no dots

95
? pink uplite

2 large distances 35-40 sec

sh, pull at wire 1 5 sec

push 4" Dead list

3" Dead list

sh, sh, sh, sh, sh, sh

sh = 40 sec...

4" dead list down 2 12 sec

T = 45 sec

sh, sh

BW wobbler 5"
carriage 4" pul
5"
15 pul

WEL edge-UT 4th at dly near cap
other wobbles (Reddy, PL, P. Jones)

1/28

WEL 1st wire 2" pul

12" / 1st wire, cr

edge 25 = 5 sec

near
Toby

long sideways on wire 2 pul 2 sec

drop
puls } 5 sec
drop
drop
break ?

3/30 muddense forest undergrowth

solitary

+ Redstart

No Todies

peck 2" PCL

↓

3" PCL

cr, cr = 3 sec

hang ~~side~~, grab 7" PCL + Loli

~~hang~~
PCL 8"

↓ 5 sec hang side

PCL 8"

peck circ. lat

solitary 10 sec

peck 1" PCL = 8 sec

6" off ground peck + 2" 2 sec

+ sh, cr, cr = 5 sec

2" PCL peck from below

cr, cr, cr = 5 sec

peck low branch

hang peck + vine 5 sec

peck + turn via vine

T = 4 sec

peck 1" PCL 3 sec (+ small)

sh + sh = 1 sec

hang side - peck 3" PCL + 2 sec

peck 2" PCL

Sitting around = 10 sec

off st 1 = 10 sec

peck 5" piece ~~circ lat~~

hang side - 4" ^{peck} lat 5 sec

fl 8 sec

fluke loose bark by vine 2 sec

st, hop up, 2 L sh drop

peck 4" PCL 10 sec

hi hang = 6 sec

hang side peck vine 3 sec

peck 2" PCL 10 sec

peck 8" PCL 6 sec hang down

fl' fl' 6' = 8 sec

peck below 6" PCL = 10 sec

hang }

drop = 1 sec

hang cerenpic stalk 10 sec

off st 1 = 4 sec

grab 8" PCL 1/2 bill on bark

↳ = 6 sec

also 5" PCL = 20 sec

hang like not dead

gape

Some last - hangs upside down - +25-30

shook? + flew down (+)?

3# 2' canopy ^{very} → very high forest edge

+ BTB + B. ^{last} ^{incompletely}

old forest 40' up

4# old forest BTB row ^{probably} (re-puller)

(hang down 5" DCL)

(hang side 4" DCL)

(hover at 4" DCL?)

(hang at branch end = 3 sec)

sh
(poke into moss on (+)
branch = 10 sec)

(poke 5" DCL = 5 sec)

(grabbed + hang 4" DCL = 20 sec)

dropped
(leg on vine pick up last DCL 5"
in h, h, h (connected)
hold
15 sec)

T = 10 sec

sh, sh hang on vine + push =
13 sec 18 sec

(flicking bark off vine =

sh = 5 sec

drag + ^{up} = 3 sec

sh, sh, sh = (knock leaf =
15 sec)

hang on trunk

pl 3' 2 sec

(poke 4" DCL)

(hang + production to ventral 2 sec)

sh = 3 sec

(poke 3" DCL ~~down~~)

hang pull + hold } 16 sec

sh pl 0' = 3 sec

(hang 10" ^{Epp 4x 10 sec} ^{front} 15 sec)

craping upside down on branch

+ chg moss = 8 sec

pl 20' sh = 7 sec

(poke 3" DCL 2 sec)

sh
(pull 6" DCL 20 sec)

fl = 4 sec

per both 5" PCL = 8 sec

check 3" PCL = 3 sec

sh

hang PCL 4" = 7 sec

sh = 3 sec

hang cherry, long strips 10 sec - Epiphyllum
= 8 sec

sh, sh = 12 sec +

ad forest on bench + BTB + BTB

PCL = 3 sec

T = 5 sec

poke loose twig = 4 sec

climb 6' up vertical mast + move

branch (poking out)

lean over check 2 4" PCL

4" PCL

vine on bench

probe 4" PCL = 3 sec

sh, sh, sh, sh, hop 3' = 45 sec

poke at Epiphyllum tree = 5 sec

crawl on bench (two) peer at leaf 10 sec
down twig

hang in vine = 3 sec

hang down flight down = 5 sec

grab 5" PCL in ball + = 5 sec

h 3' = 5 sec

hang p.h. at twig = 2 sec

pl 10' cr, cr

sh

hang down 4" PCL = 9 sec

25 sec or
more

sh, dip 2' = 6 sec

peek vine

6A → Canyon old forest - Birch 3/50' solting

sh spl, fl spl

= 50 sec

cr, sh in vine sh, sh

leaned p.h. at wait at vine

pl 1' fl 15' fl 1' sh, sh

= 40 sec

pl 10', pl 2'

hery sideways ^{10"} chul PCL = 4 sec

re up bar 3/50' RTB
upcl

hery downed horizontal = 5 sec
sh, drop fl 3' drops' = 30 sec
on palm leaf

3-Dice
#8 5" Eplite lat = 2 sec

4/35 sh, sh T = 15 sec
bone hery pick PCL

salty hery down 2" PCL = 4 sec

qth len & pick at wire = 3 sec

dashy
few
at 4
forest
10'/40'

WAL BTH
Richtert

1/29 8/50 meter
steep slope

4" PCL 8 sec

sh, sh 5 sec
put 1" PCL 2 sec

sh, sh = 4 sec

10" PCL = 8 sec

sh?

hery 10" PCL = 2 sec

put 6" PCL 2 sec

hery fully extend 10" PCL = 3 sec

sh, sh = 8 sec

grab small leaf = 2 sec

sh = 4 sec

put 5" PCL = 2.5 sec

fl 3' = 2 sec

chul 5" PCL = 2 sec

cr, cr = 4 sec

hery, chul PCL 2 sec

hery chul PCL 6" 8 sec

?

fl 7' 2 sec

hang 8" PCL ~~crushed~~ = 7 sec

fl = 7 sec

hang side loose dead wire peak = 4 sec

hang up Cerc lat ? = 10 sec

hang check PCL 3

#2 cr, cr, cr, sfl = T = 15 sec

sol. ty peak dead wire 23 sec

unshy peak 3" PCL 21 sec

step peak 2" PCL (distal) 21 sec

probe damaged live lat 15 sec

0-5/50 sfl sh, fl back T = 10 sec

hang down peak at wire = 2 sec

hang down peak 3" PCL = 2 sec

sh = 10 sec

crush leaf

sh, fl = 9 sec

hang peak 6" PCL

fl 10' = T = 5 sec

on fern

peak at Epiphyte leaf = 10 sec

hang 3" PCL = 3 sec

on fern ground = 15 sec

peak at flower? = 10 sec?

AT = 8 sec

pull dead E leaf = 3 sec

T = 30 sec

hang + peak at damaged fern = 2 sec

drop 5 sec

peak 8" PCL = 2 sec

peak at ? Dead leaf on live leaf = 3 sec

T = 10 sec.

sh, fl twig ⊕ = 5 sec

sh

hang down 3" PCL (scrub) = 4 sec

sh 1 sec

2" PCL = 2 sec

SL?

Long Pen Friend = 7 sec

Flight = 3 sec

Long 3" PCL - knock to ground

near ground sh, err

sh = 23 sec

Long twig tip pick = 5 sec

sh sh, sh 5 sh 6' fl 6'

run break = 20 sec

Grab 2" PCL in bill = 2 sec

fl fl = 5 sec

Long pull 3" dcl = 2 sec

h 5

WBL #3 Dead to pick 2 sec

pull 3" PCL

penic

4/50

WBL #4

sub

3/50

Direct under

no data

164

5/50 open canopy

10-15/50 + BTB

+ Tody

~~WBL~~

Harpy on stump

8" DCL

~~WBL~~

4" PCL Harpy side 4 sec

10" PCL leaf + 2cm moth

4" PCL = 3 sec

Harpy up (err) (9-10") = 3 sec

T = 4 sec

PCL (err) leaf = 10 sec

T = 2 sec

lean over 4" PCL T = ?

T = 5 sec

PCL 5" Epiphyte

18" PCL harpy up 15 sec

Harpy down (err) leaf 8 sec (+?) knock

pick 5" PCL = 2 sec

T = 2 sec

PCL 1" 3 sec

sh, sh, err, st of cr = 20 sec

PCL 1" in ground

3 4" PCL

8" PCL

cr, cr, cr $T = 12500$

$$sk, sh, 7 = 5 \pi c$$
 $3^4 p \leq 2\pi s$ $5L = 2500$

1 "DCL 2511

2" Dec 4 - 15cc

$$f_k f_l = 2500$$

~~Krankheit - 2~~

her, down 4" (HCO
pel)

2" PCL (2011)

$$1h_1 \cup h_2 \cup h_3 \cup b = 5!cc$$

per down cluster 97
3" DC 2 =

head-on 18 sec

200L 2 sec

2nd Dec 2011

sh, sh, sh, sh $T = 400$

411 PCLB

Theridion } 2500

lowe book - vine } Disinfecting
p-114 } hedges etc.

sh. dog fl

#6

Solid, slash, sh, oh, u, L, of, of 15'

b) Imp of 10' sh, $T=40$

pick 4" PCLD 1 sec

5h 25cc

$$3'' \text{ pcc} = 2 \text{ pcc}$$
$$sh, sh = 4000$$

bandwidth of DCC (year) = 2 sec

2 x 2" PCL 4 sec

hard down 43cc

sh = Rec

part of brook PCL

 ~~$s_h, v_h = 2 \text{ sec}$~~ ~~Lat Pingce = 500~~

4. "Love / not"

hang on rope
8 x 7" DCL cluster } not
trial

push 10" DCL (same low) = 40
circled sec

hang 8" DCL
high side wings - + 2 sec

hang 4" DCL - scrubbed 5 sec
wing - back - 30 sec

fl 3' 5 sec

line list damage 18 sec
hang down + side wings

sh fl
#7 hang
Dead fern = 5 sec

2 1/40
hang side dead fern = 4 sec

under wing
shifting hang dead fern leaf 3 sec

hang down DCL 4 sec

fl 3' = 7 sec

keep up
Dimmed line list

hang down - cluster 3" DCL = 5 sec

drop = 1 sec

peer down sh 2" DCL = 6 sec

hang down 10" Epiphyte list

peer up 8" DCL = 6 sec

sh, sh - new sound, a?

sh = 2 sec

hang - pull & grab 4" DCL = 6 sec
" " 15 sec - 0 } same leaf

co'

or, ~~cl, cl, T=7 sec~~

~~3" PCL~~ ~~old green tree~~ = 6 sec

~~or~~ looking

fl 50' creeps up wire
sh, sh = 13 sec

peck at wire top
(Bth wvbb)-type foraging = 5 sec,
cl, cl, cl, cl

8th? Hammer at twig (?)

~~creeps & pecks at wire~~

9th hanging at wire = 2 sec

5/30 sh, sh } T = 10 sec

peck 3" PCL
sh = 3 sec

peck 3" PCL = 2 sec

sh, sh, sh = 6 sec

peck 3" PCL = 2 sec

sh + sh = 15 sec

peck 4" PCL = 2 sec

sh, sh, sh, sh, sh

(ccc leaf) ?

creeping fl, fl, fl, fl
sf1, sf1, = 42 sec

check rubbing = 15 sec

fl 20' cr, cr, sh, cr, sh, sh

sh. T = 15 sec

2" PCL 2 sec

fl 5' sh fl 14 fl 2'

fl 3' fl 2' fl 3' fl 3' = 30 sec

grabbed 2" PCL in b.b. = 10 sec

fl 10' fl 3' = 15 sec

ccc leaf T = ?

sh x 5 fl 3'

1/30

15 sec
30
50

sh, = 7"

lean pick ?

again OK
well
with
Toby

PCL leaf cluster (10 / mist) = 20 sec
hanging down 5" PCL

f110' = 2 sec

reach 1" PCL + se

1" PCL 1 sec - 5 rubdown +
degrees

f13'

push petiole? = 3 sec

f13' = 10 sec

push tiny epiphyte in tree = 3 sec

oh, oh, cr, cr, cr = 8 sec

check branch (p + w + oh w) = 2 sec

PCL = 5" 2 sec

switch branch = 5 sec

8" PCL = 2 sec

cr, cr, cr, cr, cr = 14 sec

check 2" dead leaf on petiole =

or petioles? 5 sec

lounge sh, oh, oh = 14' sec

3" PCL 2 sec

f13' lounge?

6" PCL = 3 sec

f1 ^{swing} for 3'0"

oh, sh, oh = 23

hang ^{dash} petiole + ^{try} = 2 sec

sh = 8 sec

push 1" PCL = 2 sec

f13' ?

hang 6" PCL = 2 sec

check cluster of "big leaves" = 15 sec

tree left change (brown) = 3 sec

twig ? sec

checking?

6" PCL = 2 sec

sh, if st f1 = 10 sec

cluster 10 1" PCL

drop drop st, oh = 13 sec

3" PCL = 2 sec

check PCL ?

cluster 5" PCL = ^{+?} 5 sec

cluster 5" PCL ?

f1

Big PCL
tree -
(at)
of dead
down

hang down 5" PCL = 4 sec

stroke 5" DCL = 5 sec

hang fully extended 3" PCL = 2 sec

(grabbed leaf)

#1 13' sh, sh ?

PCL or vine

#20 sfl, sfl = 8 sec

~~30~~ Dead Palm 20" =

hang palm leaf

hang in Epiphy (dull leaf)

pull at Dead Palm leaf

hang in Dead Palm leaf

sh, sh, sf, sh, sh = 4

Dead Epiphy leaf = 5 sec

on vine T = 5 sec

pull back at Epiphy (dead leaf)
(dead leaf on Epiphy) = 5 sec

sh, (B + L wobb) = 3 sec

T = 3 sec

hang down - Palm leaf = 2 sec

sh, sh = 6 sec

sh, sh

hang down Palm leaf = 6 sec

sfl, cr, cr,

sh, cr f' 3', f' 1'

hang
To Palm leaves - spray at dead twig = 10 sec

f' 0'

hang on Palm leaf = 3

g ?

hang down to = 2 sec

pull 3" PCL = 3 sec

T = 5 sec

#3 cr, cr, = 3 sec

Reddish hang down 6" PCL = 2 sec

1" PCL = 2 sec

hang down 2" PCL = 3 sec

T = 3 sec

5 x 1" PCL = 7 sec

hang poke twig = 2 sec

cr, cr, sh, sh = 7 sec

3" PCL = 2 sec

light = 3 sec

4" PCL (grab) = 2 sec

T = 1 sec

3" PCL = 2 sec

$Fl 1' = 4 sec$
 hang down 3" DCL 1 sec
 hang down 3" DCL = 2 sec 3 sec
 drop?

#4 pier at 100, limb = 10 sec
 40-10/50 $T = 1 sec$

poke 3" DCL = 1 sec
 hang 3" DCL 1 sec
 7 = 1 sec

sh, sh $T = 2 sec$

cluster 3" DCL F2 sec

sh = 1 sec

hang Epiphyte 15" DCL = 15 sec

#5 pull twig 2 sec
 " " 2 sec
 40' 8 sec

hang down 2"
 poke 3" DCL

probe 8" DCL = 8 sec 15 sec
 hang down

hang down 8" DCL 8 sec

20

$T = 10 sec$

pc fl 5" DCL = 3 sec

hang down twig = 3 sec

sh, sh = 7 sec

hang poke 2" DCL = 2 sec

hang 12" DCL = 13 sec

poke at twig tip = 14 sec
 loose dead

hang in between 4" DCL = 3

hang - side view = 4 sec

drop sh, sh

W
 hang down 2" = 5 sec
 drop

poke at twig tip 1 sec

drop end = 4 sec

poke 3" DCL = 2 sec

fl 4' = 2 sec

poke down 12" fl 14 sec

poke down 1" DCL = 4 sec

sh fl 3' = 6 sec

1" DCL = 3 sec

fl

peck 3" PCL = ?

sh = 2 sec

hug down tug = 1 sec

sh, sh (fl, fl) T = 6 sec

fl to peck 7E left = 2 sec

his side

sh, sh, sh

chuck 11" PCL = 3 sec

tug 3 sec

drop?

2" PCL 5 sec

2" PCL ?

335

1/31 #1

3" PCL 3 sec (+ ? flushed)

drop to ground - very narrow
on ground

=

sh, sh, sh, sh, sh, sh = 20 sec

chuck 3" PCL

hug down 3" PCL

hug down 6" PCL knocked down = 4 sec

sh, sh = 2 sec

hug down 3" PCL = 5 sec

flipped open

fl fl fl 5 sec = 10 sec

3" PCL =

sh, sh = 2 sec

3" PCL 1 sec

sh, sh 2 sec

peck 2" PCL = 1 sec

sh, sh 3 sec

3" PCL = 1 sec

sh 2 sec

hug down 2" PCL 1 sec

hug down PCL 1 sec

fl 3 sec
p 3" PCL 15 sec

Pl 20'

31 January
20' seed sfl, sh, cr, cr, sh 3'

B5B
6c Thrush?

^ sfl/
Dead Leaf

2nd shrub } ? looking to it 10 min
unusually

5/20'

3# sh, sh, sh, sfl drop down 30"
peer 3" PCL 2 sec
sfl fl

BTB
MW
Gardw
3/10
PCL

J#

2-20/50

old
ground

her, down - PCL

Dead Palm leaf = 12 sec.

got grub on ground 2 in

3' PCL = 2 sec

fl 20' bw ⊕ } 22 sec
fl 30' sh

peer
mossy limb 2 sec

sh sh 2 sec

peer and Dead twig = 2 sec

sh, sh 3 sec

4" PCL 2 sec

Palm leaf 2 sec

mossy Thicket = 3 sec

3" PCL 2 sec

1" PCL 2 sec

3' PCL 2

hy Am 3" PCL 2

T = 2 sec

high p-11 3" PCL = 3 sec
sh = 1 sec

Flat Prod leaf 2 sec

sh, sh, long T=6 sec

hang down pinch 2 sec

T=6 sec

hang + flash (?) dropped + (+) 4 sec

Al, sh, = 7 sec

hang curved twig pinch = 2 sec

sh:

hang, down + pinch? mustered wire = 10 sec

sh, bow 2 sec

hang down 3" PCL 2 sec
" " " 2 sec

prod twig, east = 3 sec

ac, hang, or = 5 sec

pinch PCL (hang-down) 4 sec

sh, or, sh = 4 sec

6" PCL (grab) 18 sec

sh = 2 sec

pinch twig (part) 3 sec

sh, sh = 10 sec

sh by oral 21 sec

Prod
Epiphyte leaf (?)

T=1 sec

hang down 1" PCL 2 sec

drop = 2 sec

pinch 2" PCL

T=4 sec

pinch 3" PCL

T=2 sec

pinch Prod twig = 3 sec

sh, T=3 sec

hang down cluster 3x4" PCL 3 sec

sh, sh, sh, fl 210 sec

5" PCL grabbing 3 sec

3" PCL 2 sec

5" PCL 2 sec

3" PCL = 2 sec

fl 2' 2 sec

hang PCL 2 sec

fl, drop fl 20' fl T=10 sec

pinch Prod fern leaf 3 sec

3" PCL cluster 3 sec

T=

lost - tan
here

with
2B+L
Redstart

1 out Date
2/1

340-360
th.
b.

WELW 10.5 cm grub

bw

sf

3/20

sh, sh bush sh fl sf1

Peak
2nd growth
green

sh, bw

?
lost

Palm leaf
Palm leaf
Palm leaf
Palm frond
Palm leaf *?

#2

More
2nd growth
near G.C. Thail
Redstart

#3
700 } CC, C, GR

3" PCL = 3 sec

SF1 = 25 sec

3" PCL 1 sec grabbed

sh, sh, sh, near ground = 10 sec

drop drop 24 sec

hang down 2" PCL = 2 sec

sh, sh, sh, sh = 13 sec

hang (full extension) pulled 3" PCL
5.1 sec 18 sec

T = sh, sf, sh, sh 25 sec

hang full + drop twice on
ground

sh sh T = 25 sec

pick 1" PCL 1 sec

hang side 2" PCL = 4 sec

hang side T = 20 sec

hang down 2" PCL

sh, sh, sh, T = 6 sec

3" PCL 2 sec

3" PCL 1 sec

T = 5 sec

10" cerc left 3 sec

T = 5 sec

hang

hang down 1" PCL 2 sec

hang down 2" PCL 3 sec grab + pull

T = 15 sec

BTB

2" PCL 2 sec

TO

1" PCL 2 sec

Down

2nd 3rd

Sp20

hang down (FE + hold) 3" PCL = 5 sec

hang 7 = 5 sec

1" PCL 1 sec

2" PCL hang down (FE) 4 sec

pull = 5 sec

4" PCL 2 sec

4" PCL (cluster)

hang - side Palm stick

Align eyes

WEN whuh, T = 10 sec

10/20

3" PCL 1 sec

T = 80 sec

2nd

2" PCL (cluster)

1 min 6 sec

10 sec

BTB

hang down 3" PCL

some cluster but lost time

3" PCL

2/2 lost date

old force

putting Palm leaf up against cliff

13/50

crushed

Dead Palm leaf ~ 10

Dead Palm leaf 10 sec

+ 2 min

lay along Palm leaf =

systemically

hang down Palm

25 sec Palm

high down palm } total = 120 sec
 high down palm }
 top palm leaf (4) flooded (?)
 to ground

Palm leaf
 Live Palm leaf hanging down (40 sec)

- dropped T = 10
 Dead Palm = 20 sec
 Dead Palm 10 sec

Palm leaf
 Palm leaf

Shot down top Palm leaf - 45 sec 5/4
 high down palm leaf 25 sec
 high down palm leaf = 20 sec

#2 2/2

#2 Palm 5 sec
 Palm 5 sec
 Palm 5 sec (A)

30-40 palm leaflets
 stand below 1-20
 high down 20-3/0
 top 10 palm fronds + 2

4 PCL x 3" } hangs on live Palm 20"
 2" v 6-8"

6" Live curled

6" PCL

8" Live curled leaf

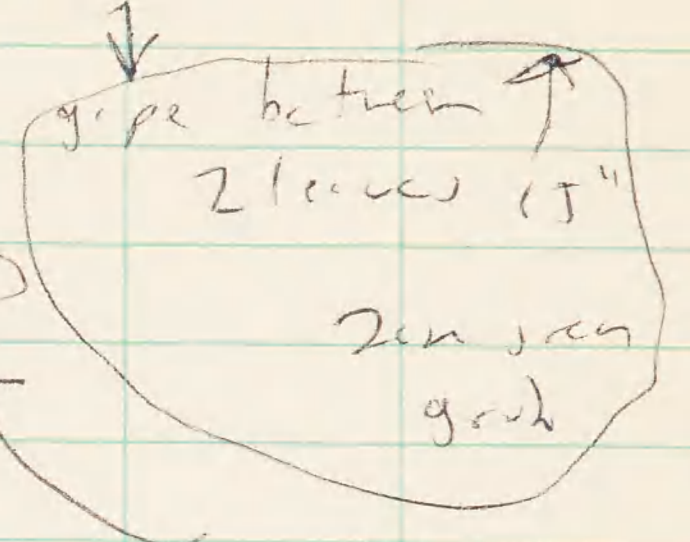
T = 2 sec

4" PCL = 2 sec

4" PCL } 30 sec

5" PCL

2 clusters leaves



8" PCL = 4 sec

T = 8 sec

5" PCL = 2 sec

T = 4 sec

1" PCL

high
Side down 3" PCL = 5 sec

sitting = 8 sec

455

Cork wine leaf - 1162

(Vireo prob 1856)

sh, sfl = 10 sec

90/
50

Dead Palm Peck
msf

#2 Dead Palm leaf = 5 sec

20/40 sfl, sfl cr, cr
Palm leaf sfl, sh = 13 sec

Leaf Peck at Palm 1 sec

WBL " 4" PCL 1 sec

AT T = 3 sec

Peck at Palm 1 sec

T = 3 sec

Peck 2" PCL 1 sec

Peck + Peck 3" PCL = 2 sec

sh, sfl = 10 sec

Dead Palm Peck = 3 sec

sfl = 2 sec

Peck 5" PCL = 1 sec

fl sh, drop, = 10 sec

Palm leaf

Palm leaves 36-40"

Leaf Peck
3# 8" Alucis leaf = 3 sec

old Ep leaf = 3 sec

Pecking 1 sec

8" Gustavia? leaf = 4 sec

hang down gape

ripping into it = 40 sec

#3
20/30-40

Palm minority
Ant tiger
Flash

Sm. up

#4 1" PCL

10/30

mol film
Ant tiger
Bridal

BTLW

Resist

5 # Land

#6 Prod film lat = 2

Ant film Prod film lat = 2

30/40' 10 PCL = 3 sec
Disappeared

2/13 13m

1# stl sh = 8 sec

3' PCL = 2 sec

stl stl,
T = 12 sec

hang side 3" pcc

15/30' T = 2 sec

hang down Palm friend = 3 sec

B
hang T = 1 sec

O.B. peck 3" pcc = 1 sec

sp. (w) hang side 3" PCL 1 sec

Ant tiger T = 2 sec

hang 10" PCL (Ant tiger?) 3 sec

#2 12" PCL 10 sec

to PCC PCL = 8 sec

Prod Palm 5 sec

Prod Palm 3 sec

Prod film 5 sec

sh, sh, sh

hang down for, PCL 2 sec

sh = 8 sec

Cl-shy for Palm = 16 sec

hang up

sh
Pack at hang, Prod Palm 5 sec

sh = 1 sec

key down Palm leaf 30cc

sk, fl 5'?

↑
Dense tall
palm - mostly

10/40'

AT

LG

T. Green

WAL

2 winged

2 winged

#3 8" PCL = 20cc

key down 8" PCL = ?

AT
Flock

25/40'

Dense forest

Palm RAT
S. B. Green
W. B. Green
P. A. Green
S. B. Green
W. B. Green
P. A. Green

#4 4" PCL = 20cc

sh, sh, sh = 60cc

Antthr DWATV 3" PCL 10cc

T. Green
sh, sh
T. Green
O. B. Green

[S. B. Green 6-8 PCL (Palm)
8x PCL (Palm)]

#5 PCL wire = 10cc

key down Palm leaf 20cc

PCL wire 10cc

sh, sh, sh = 30cc

pull thin wire = 10cc

sh, sh, sh, 1 pull of wire

pull 3" PCL 5cc

sh, sh, sh = 60cc

pull wire 7cc

sh, sh, sh, 1 pull = 120cc

pull 1 ft. wire = 90cc

sh = 12 sec

peck 2" PCL = 2 sec

sh, sh, sh = 3 sec

peck at wire 1 = 2 sec

sh, sh, sh, sh, sh, sh = 12 sec

hang down 4 sec
vine

peck 3" PCL = ?

sh, sh, sh knock at sh = 20
sec

prA
Antwari
Grab 3" PCL 3 sec

sh, sh, cr, sh, cr = 15 sec
sh, sh

(Antwari)
40/50
peck on flattened leaflets = 2 sec

3" PCL 7 sec
3" PCL

prA
UT
2" PCL 10 sec

3" PCL 2 sec

3" PCL 2 sec

sh = 2 sec

peck wire 2 sec

sh 6 sec

hang down 1" PCL 1 sec

8" PCL 9 sec

(bite) T = 1 sec

3" PCL ?

3" PCL ?

1" PCL 10 sec

1" PCL

sh, sh 9 sec

Peck at wire 6 sec

knock at door =

sh, sh = 12 sec

sh, sh 2 sec

4" PCL 20 sec

3" PCL 2 sec

sh, sh = 7 sec

hang down 1" PCL 5 sec

sh, sh, sh, sh = 18 sec

peck at wire 1 cm 3 sec

Peck at wire 4 sec

sh, fl, + 10 sec

big birds
chirping / ref

fl, sh, sh = 11 sec

sim probe

Epiphyte? 12 sec

4" PCL

1" PCL = 1 sec

fl, fl = 8 sec

side
turning (hang down) = 15 sec

sh, sh, sh, sh = 34 sec

windup pack 5 sec

2/14
Dinner
AT
To Grackles
flock

side
hang down Palm - 10⁺ sec

X2

20/40'

FDW

On AW

Pr W

MW

3 sparrow

upward

py

LB braver

spe Robin

BB bird

Bird

hW

= 86

2/16 - wet about 2/15

1#

3 PCL = 2

Run Palm hang

MH

Pr AW

hang + drop } 100 sec

WAV

4" PCL - hang down

FDWE

3" PCL 4 sec hang down

RAWH

12" PCL

Battm

6" PCL = 20 sec

WPH

S. Brown

15/40'

much sh

sh

100 sec

leave

4 PCL pick-up 3 sec

10" PCL 4 sec

sh, sh = 40 sec

hang down 10 PCL 30 sec

sh = 20 sec

4" PCL = 7 sec

8" PCL = 2 sec

sh, sh = 60 sec

sh, sh = 5 sec

4" PCL 3 sec

3" PCL 2 sec

fl 2 sec

hang down 2 sec

3" PCL 2 sec

sh, sh T = 6 sec

2" PCL = 2 sec

peck at P. l. n - 1 sec

fl 3'

(4) ? drop

Palm tree 2 sec

hang down 2 sec

sh 6 sec

grasp Palm 2 sec

hang down Palm = ?

sh

hang down Palm = 10 sec

sh 1 sec

hang down Palm 2 sec

peck bottom Rh 3 sec

hang down 4" PCL down = 12 sec

#2 peck at P. l. n 4 sec

AT " " 5 sec

TCB sh 2 sec

SBW sh 2 sec

MV sh, sh = 5 sec

sh, sh = 5 sec

hang down Palm 7 sec

" " " 7 sec

hang down Palm ?

#3

AT

Speckle

P. l. n 20" PCL 10 sec

6" PCL

#8 18" PCL - grabbed 38 sec

hang down, sh, sh, sh

sh, sh 2

3" PCL 2

sh 2

peck at P. l. n 2

sh, sh 4 sec

hang down peck vine = 8 sec

Fl 10'

sh 1 sec

~~p DCL 114~~

sh 1

fl 5' sh, sh, sh cr, cr, cr

fl 6' drop 3'

6', sh = 40 long

~~long sh~~ fl 20' 100 sec

sh

~~put a piece of bark (see)~~
p DCL - 3 sec

sf1, sh, sh fl 24 sec

hang down 8" p DCL 4 sec
fl

[BWW - 8" DCL] long
5" DCL long
hang 5" 6
cerc. leaf
6" DCL place

WELW hang down (cerc. leaf) 8" 18 sec

2nd
gr-tl

AP-rv sh, sh 6 sec

p-rv

BTL

BW

Mv

hang down 15" (cerc. leaf) 60 sec

DA-rv

WBBW hang down 10" 10 sec

TEB-rv

old
pick up

4/20

Open

put on bark

10 sec
3 sec
6 sec

pick old fly

hang T = 3 sec

pick old fly 30 sec

fly old dead bark = 30 sec

sh,

(cerc. leaf) 30 sec

fl

pick 8" DCL 10 sec

fl to h 60 sec

cerc leaf ^{10"} 3 sec

sh, 3 sec

cerc leaf 10" hang down } 14 sec
hang-say

fl 5 = 10 sec

cerc hang down 13 sec

~~13 sec~~ T = 1 sec

1" PCL 1 sec

4" PCL 4 sec

T = sh, sh fl = 14 sec

hang down complete 6" PCL
grab bar = 18 sec

pick cerc leaf hang 6 sec

fl 3 sec

cerc leaf 2 sec
fl = 7 sec

hang side } cerc leaf 10 sec
hang down

cerc leaf >

cerc leaf - hang down (+?)
= 103 sec

T = 5 sec

cerc leaf 6 sec ⊕ spier
cerc leaf T = 3 sec
hang side - knock = 20 sec

cerc leaf hang down = 550 sec
side

fl = 5 sec
pick wire = 20 sec
fl = 25 sec

6 sec PCL 8" = 70 sec
hang down

T = 1 sec

3' PCL = 33 sec

T = 1 sec fl

10" PCL = 70 sec

cerc = ?

#2 ^{Prod} Palm leaf = 7 sec

3/15/50 ^{T = 1 sec}
Dead Palm leaf = 2 sec
Sh, LG

AT

LG Dead Palm ?

PAH Sh, LG 10 sec

Mr Rich Palm Reck, 2 sec

WJ Dead Palm leaf 2 sec

Worley Fl, Sh big, ok 110" = 12 sec

WJ On Palm + tick at leaf base
(dead leaves at base)

For Palm
For Palm - old leaves = 10 sec

T = 5 sec

Loose Dead Palm leaf } 3 sec
long stem
Sh, ?

For Palm - old leaves = 3 sec?

Dead Palm
Sh, ?

T = 2 sec

Dead Palm leaf = 4 sec

Dead Palm leaf = 9 sec

T = 1 sec

8" PCL - grab = 3 sec

1" PCL 1 sec

Dead Palm Reck, 8 sec

6" PCL = 2 sec

T = 2 sec

8" PCL = 3 sec

Dead Palm leaf 5 sec
Sh ?

5" PCL = 3 sec

Back? = 3 sec

T = 3 sec 12"

Long bottom dead leaf = 73. (+)
Fl

On For Palm - old leaves Dead leaves 5 sec

T = 2 sec

Dead ^{40"} bottom leaf? = 3 sec
Fl = 2 sec

here down 8" PCL

15" PCL - 2 sec

6" PCL 3 sec (+) lose drop 7" 2 sec 1"

8" PCL =

here down 11" = 2 sec

11 20' = 12 sec

8" PCL = 4 sec

SE, SE = 1 sec

10" PCL pul 1 sec

Red PCL = 3 sec

drop = 6 sec

pick 3" PCL = 2 sec (+) ?

#1 2/19 - Salomine 10.1

3" PCL ←

25/00' tug round pan

AT WB

FBW

WUPFF

TEG

SPR

#2 - no data

MSF -

PS

PAOKH

Juener

3/20

seam 4

per 10

#3 no data (G.C. webber) her

15/50'

OUT

MSF

189

2/20

11

10/40' Red PCL 2 sec T = 10 sec

by OUT Red PCL = 3 sec

AT oh creeping = 1 sec

TEG down (core leaf) = 5 sec

BTFG oh

SPFL

66W 66R 200 overboard BTHU 2 G-100

WB 200 overboard OLEuphoni

sh, sh = 8 sec
 (can pick at wire) = 2s
 Cbr (can pick at wire) 2s
 Bhr (can pick at wire) 5s
 YTV sh, sh = 8 sec
 MV (can pick at wire)
 10/50' (can pick at wire) 6" PCL wood? = 12 sec
 old fork (can pick at wire) = 1 sec
 sup (can pick at wire) 6" PCL 2 sec
 sh = 2 sec
 (can pick at wire) 6 sec
 fl.
 (can pick at wire) 2 sec
 (can pick at wire) 3" PCL = 3 sec
 T = 5 ft
 (3" PCL) = 3 sec

sh 1 sec
 (can pick at wire) 1 sec
 (10" PCL) 1 sec
 fl = 2 sec
 (can pick at wire) 8 sec
 sh = 2 sec
 (can pick at wire) 3 sec

In (can pick at wire) - 2 sec
 sh
 (can pick at wire) - 1 sec
 (can pick at wire) 8" PCL = 5 sec
 sh 1 sec
 (can pick at wire) 5 sec
 drop 8", 12 T = 8 sec
 (can pick at wire) = UT 8 sec
 sh 5 ft T = 20 sec
 (can pick at wire) 2 sec
 sh

(can pick at wire) 2s
 AT " " 5s
 TCG " " 8 T = 10 sec
 S C P C " " 5s
 SP Flyc sh T = 14 sec
 W B W W (can pick at wire) 8s
 P W W " " 8s
 (can pick at wire) 8 sec
 sh 3s
 (can pick at wire) 2s

sh, sh, sh = 10 SCC

Dead Palm 2)

sh, sh, sh

sh, sh = 15 SCC

Dead Palm 1st

20" leaves

all one
frond

SF 20' SF 10' bw = 25 SCC

SF 10' sh,

Dead Palm 1st = 8

frond

80

sh = 6-5cc

hang on Palm 1st = 6cc

sh

#

Dead Palm = 2

15

8 PCC Dead Palm 1st hang side

60

open

20"

below

Dead Palm hang up 25s

hang down 1" PCC = 1s

f1 = 7s

Dead Palm = 10s

P1 = 7s

hang down

hang down & back down 2" PCC ?

2" PCC

#

2" PCC

10/50

5" PCC

Ride

hang cere (+) 1.5cc back

front

hang cere 1st gapping 14s

open

cs

not

hang down 1" PCC = 5s

Ant T

TCB

P1

P1

5th

W BV

L G. 1st

W BV

SP. 1st

Heavy door 2" pcc = 300

15/35'
open v.

1" pcc = 30

Prick with vine 30

sh, sh = 800

Heavy 12" pcc (Prick) = 40

sh = 80

Flt. with vine 30

sh, fl 20'

sh

= 170

prick at top 20

sfl

Prick top (line) 40

6" pcc (Eps) = 40

fl 3' sh

sfl, sh = 260

3" pcc = 30

sh, sh 50

1" pcc (Prick) = 30

fl 20'

10" circular hole side 100

6" pcc T = 110

6" pcc 20

Wood Petiole structure = 100

cr, cr = 10

Heavy pcc 2" pcc 20

Prick vine 30

Prick vine - 40

cr, cr = 40

2" pcc 10

6" pcc 80 + 30

heavy door

sh x 5 150

pcc 110

pcc 15

7

5" pcc

10/35' SL = 20

Don. prick at vine 40

rcb. sh,

prick sh, = 20

pr heavy door

ZBW sh, sh = 40

prick 10" pcc = 40

sh, sh, sh, sh (250)

#2/28

ATG

Torahed bar interaction

gong

chips - harder than the usual

O. Weng

function ring

20/30

o Persi Peln

Porch Pod Peln test

sh, h = 3,

Pod Peln 2,

sh

Pod Peln 2,5 (+) - mixed

Pod Peln test - 8,

Fin Peln Peln - 5 sec 8,

~

Fl 10' Fl 6' = 15'

5" PCL = 700

Fl 10' PCL = 5s

Fl 4'

Fl 3' } 12,

sh

probe 3" PCL = 3,

Fl

5

1" PCL 3s

Fl 3' 5,

1" PCL 3s

unc 4s

Fl 15 5s

Pod Peln test 2,

" " 2,

folded Peln test,

x 3

green up Peln reach

push at Peln left 9s

pull + scrub Peln (+) 40

Peln test = 10,

#2

solitary

Pod Peln 1 sec

Pod Peln 5 sec

7/25

Peln Forest

hy sac Peln

hy sac Peln

hy sac Peln

1, 1

sh, wh, = 3,

hy sac unc 2,

Palm Palm & h. l. y - (4) 15s

Palm leaf = h. l. y = 20s
T = 3s

Dead Palm = 3s

?

#3
first time

gr. 1

AT

MAU

PT

WPR

TRV

Bent h. 11

MV

HL

Dead Fr. Palm leaf (4)
" "

totally on inside - full

big side (30)

Dead Palm

Palm frond

70s

hanging down

sh sh, sh 120'

320

Totally n Δ 50s
Jamaica = 430 50

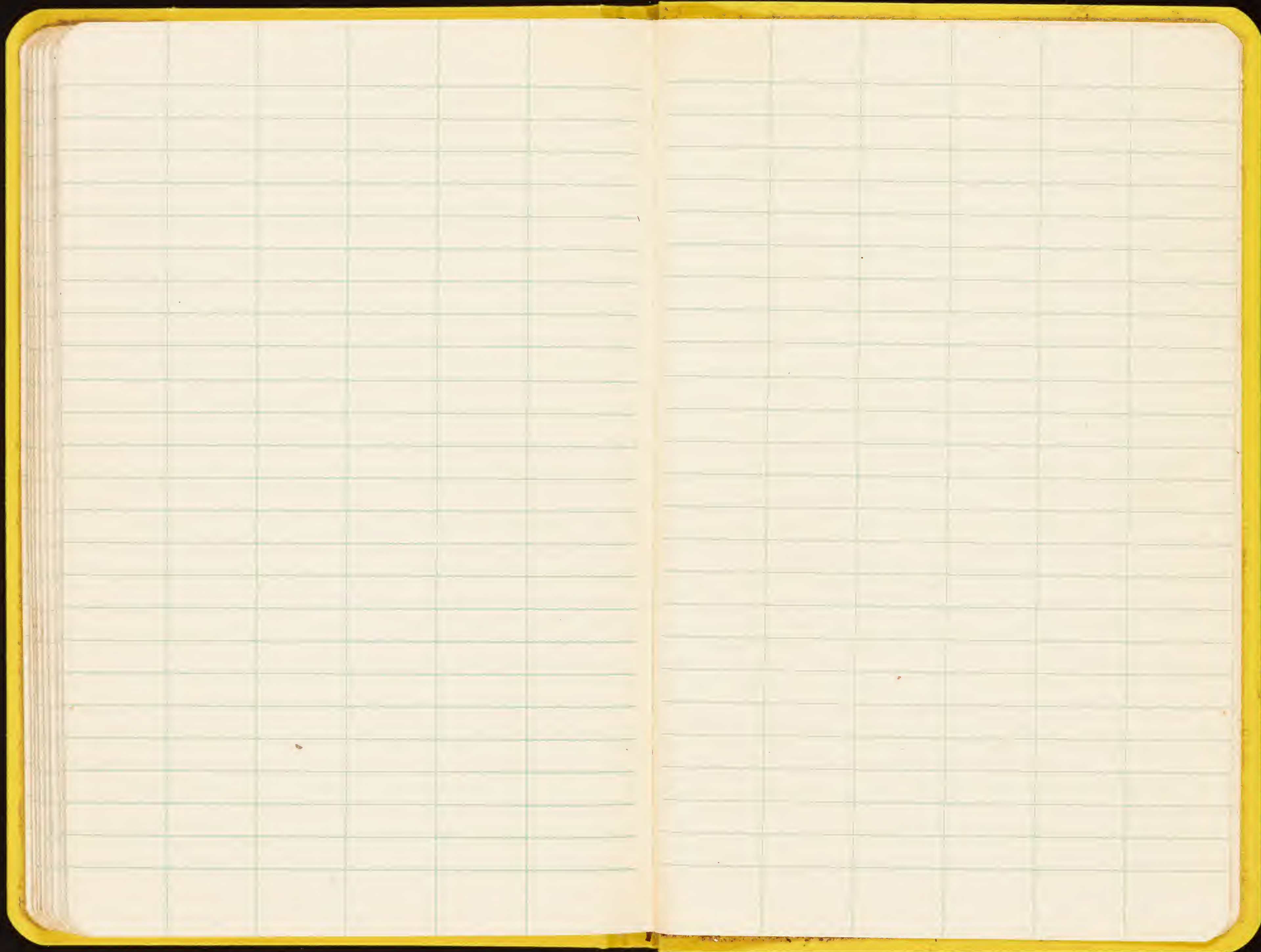
D.R. = 470 30 19

Belize 320 28 12

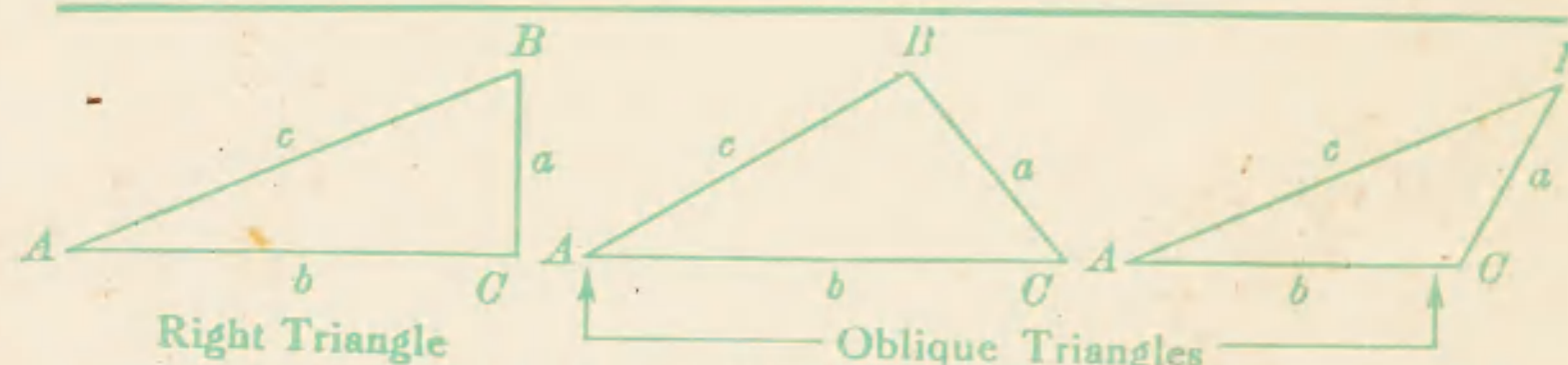
1220 108







TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

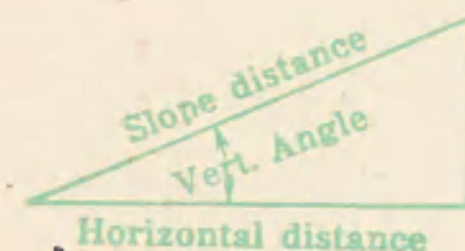
For Angle A, $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\operatorname{cosec} = \frac{c}{a}$

Given a, b	Required A, B, c	$\tan A = \frac{a}{b} = \cot B, c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B, b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90^\circ - A, b = a \cot A, c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90^\circ - A, a = b \tan A, c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90^\circ - A, a = c \sin A, b = c \cos A$

Solution of Oblique Triangles

Given A, B, a	Required b, c, C	$b = \frac{a \sin B}{\sin A}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180^\circ - C, \tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$ $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a + b + c}{2}, \sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$ $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}, C = 180^\circ - (A + B)$
a, b, c	Area	$s = \frac{a + b + c}{2}, \text{area} = \sqrt{s(s - a)(s - b)(s - c)}$
A, b, c	Area	$\text{area} = \frac{bc \sin A}{2}$
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = $5^\circ 10'$. From Table, Page IX, $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ ft. Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. $\cos 5^\circ 10' = .9959, 1 - .9959 = .0041, 319.4 \times .0041 = 1.31, 319.4 - 1.31 = 318.09$ ft.

When the rise is known, the horizontal distance is approximately: — the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.

